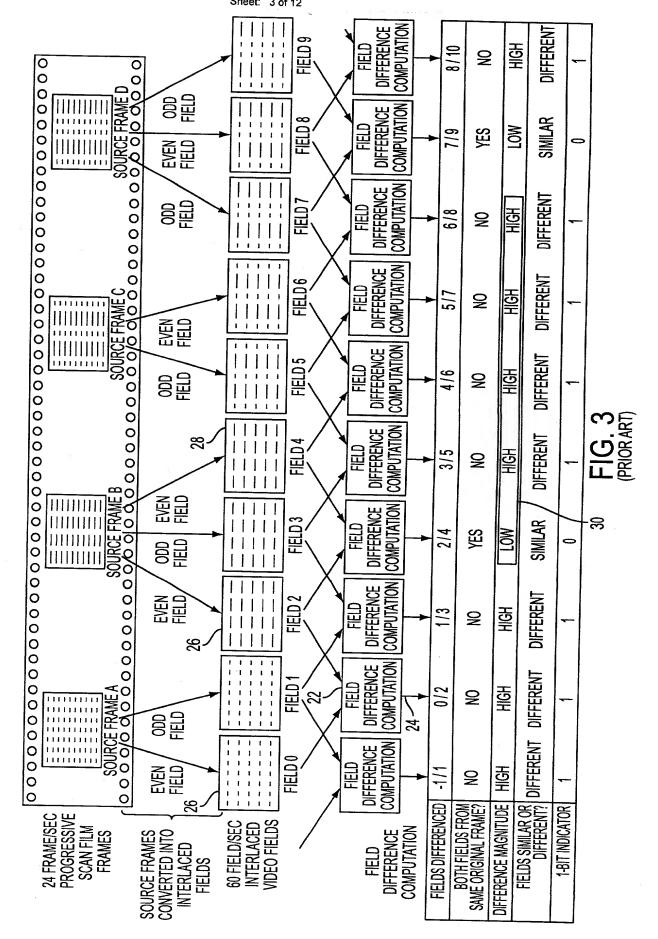
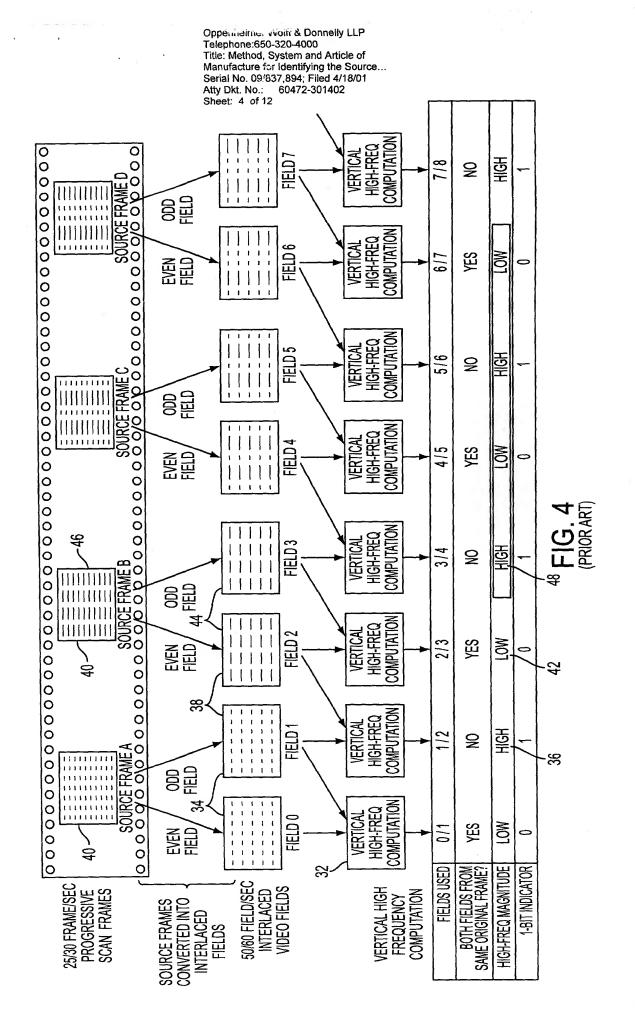


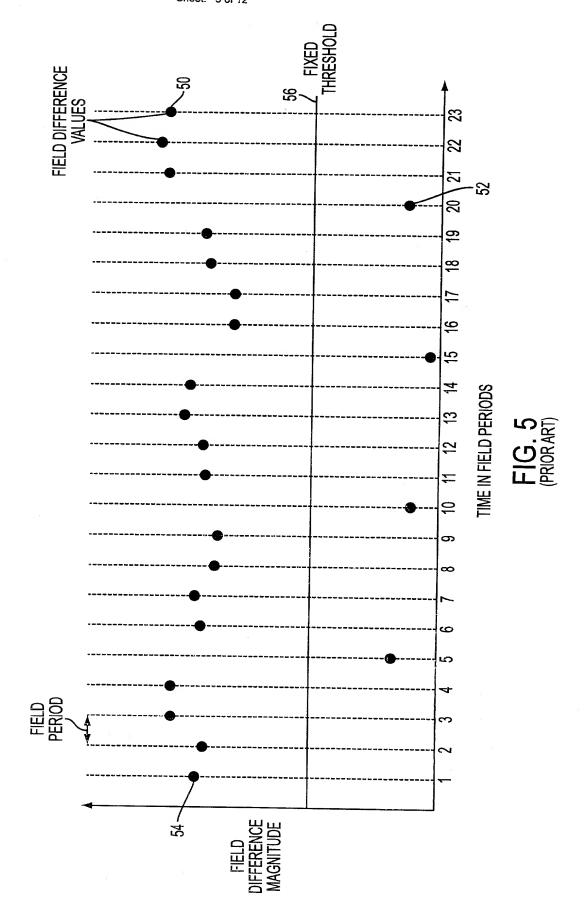
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Bank.



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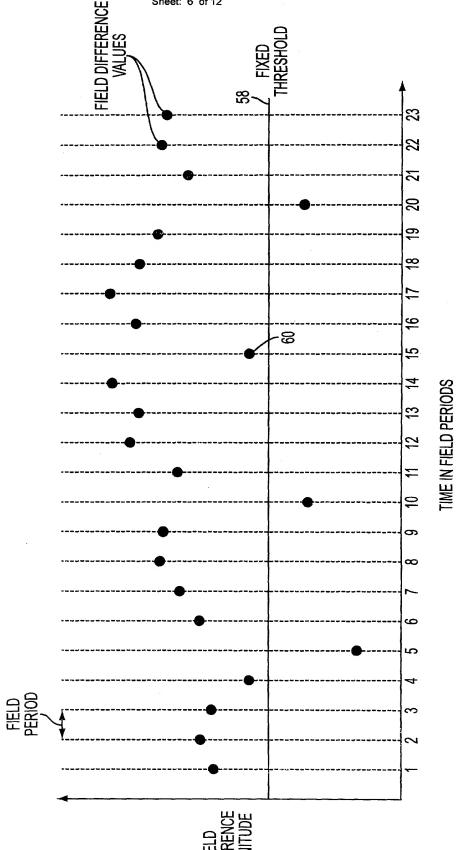


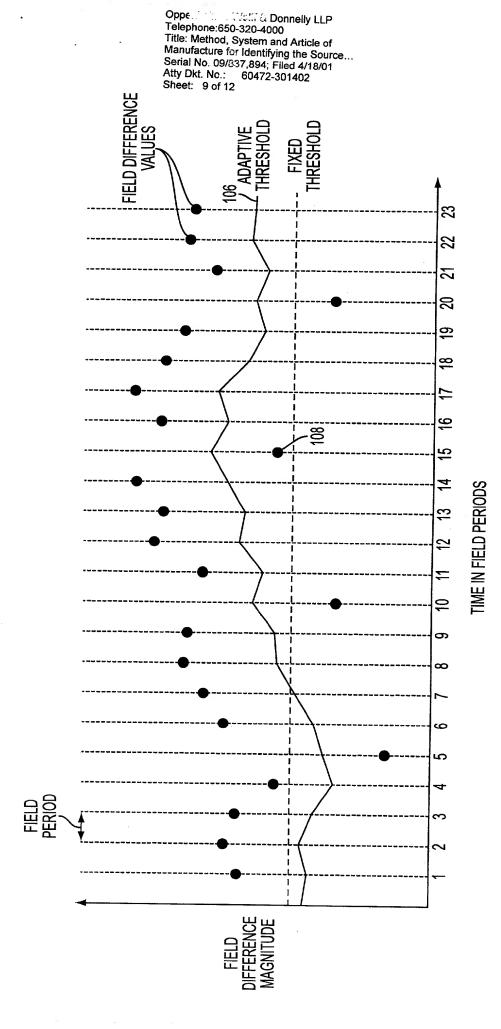
FIG. 6

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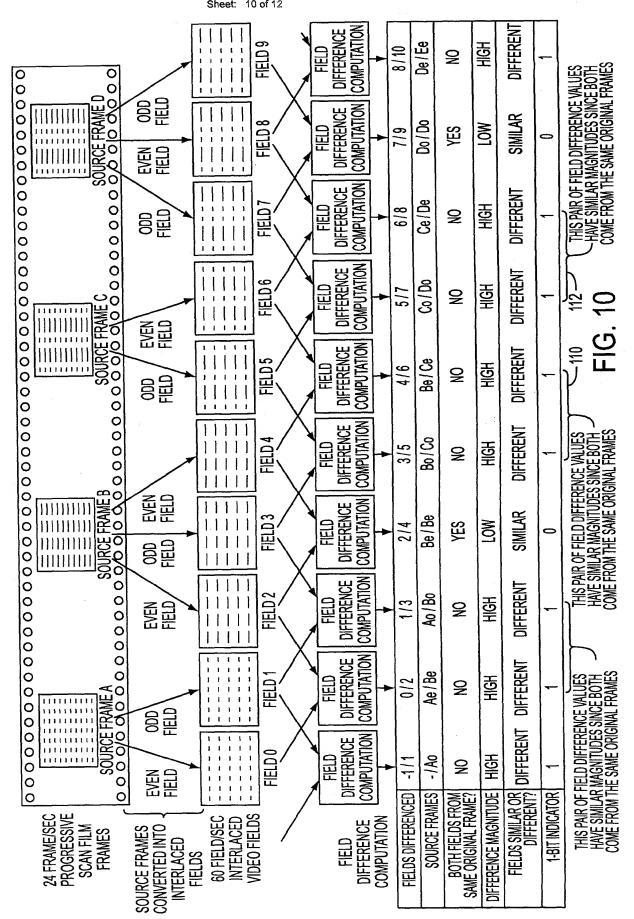
→ FRAME
OUTPUT INTRA-FRAME DEINTERLACER INTERLACE ARTIFACT POST-PROCESSING ON/OFF PROGRESSIVE SOURCE DETECTED ,09 PROGRESSIVE SOURCE PHASE 쫯. PROGRESSIVE SOURCE PATTERN & QUALITY DETECTOR FIELD ASSEMBLY FIG. 7 8 8 ADAPTIVE-THRESHOLDING PROGRESSIVE SOURCE DETECTION MODULE 7 DIFFERENCE SUM NOISE FILTER CONTROL FREQUENCY DETECTION SUM DIFFERENCING MODULE 88 밆 FREQUENCY
DETECTION 4 62 NEXT FIELD -

Title: Method, System and Article of Manufacture for Identifying the Source... Serial No. 09/837,894; Filed 4/18/01 Atty Dkt. No.: Sheet: 8 of 12 60472-301402 COMPUTATION HGH-FREO VERTICAL 풀 9/10 品 2 O SOURCE FRAMED 0 O 응띒 COMPUTATION O HGY-FREO VERTICAL FELD 8 6/8 YES O 0 0 0 HIGH-FREQ COMPUTATION 0 0 000000 0 용뜸 窓 0 0 0 Ö COMPUTATION HIGH-FREQ FIELD 6 VERTICAL 0 SOURCE FRAME C 1 1 웆 0 ._ 9 O 0 0 COMPUTATION Vertical High-freq 0 FIELD 5 2/6 Ō 巡 응弫 ŏ 0 O 0 FIG. 8 0 0 COMPUTATION VERTICAL HIGH-FREQ 0 FED 7 0 2 7 0 1111 11111 0 图目 COMPUTATION VERTICAL HIGH-FREQ FIELD 3 0000 3/4 贸 8€ 0 용语 000 0 COMPUTATION VERTICAL HIGH-FREQ 8 FED 2 0 怒 중. 0 0000 8 0 SOURCE FRAME A COMPUTATION Vertical High-freq FIELD 1 ङ 2 0 102 0 응弫 00000 COMPUTATION VERTICAL HIGH-FREO FELD 0 XES ⋛ 5 0 0 FIELDS USED BOTH FIELDS FROM SAME ORIGINAL FRAME? HIGH-FREQ MAGNITUDE 1-BIT INDICATOR 24 FRAME/SEC PROGRESSIVE SOURCE FRAMES CONVERTED INTO WIDEO FIELDS **JERTICAL HIGH** OBS/CTEL D/SEC INTERLACED COMPUTATION SCAN FILM FRAMES FREQUENCY FIELDS

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Sheet: 11 of 12 SOURCE FIELD G DIFFERENT DIFFERENCE COMPUTATION THIS PAIR OF FIELD DIFFERENCE VALUES
MAY HAVE DISSIMILAR MAGNITUDES SINCE THEY
COME FROM DIFFERENT SOURCE FRAMES တ Fe/He 뜻 FED (品品 % / / / 2 용莊 COMPUTATION DIFFERENCE 60 FIELD/SEC INTERLACED VIDEO SOURCE DIFFERENT SOURCE FIELD 8 ය ල 풀 2 ш DIFFERENCE COMPUTATION SOURCE FIELD DIFFERENT De/Fe FELD 7 問 8/9 풀 웆 응뜸 11 DIFFERENCE SOURCE FIELD D DIFFERENT FIELD 6 <u>ය</u> ප 品 5/7 폴 9 J 品 EVEN SOURCE FIELD C COMPUTATION DIFFERENCE VERY HIGH DIFFERENT FIELD 5 Be/De 4/6 2 FIELD 8 SOURCE EDIT DIFFERENCE 126 VERY HIGH DIFFERENT MAY HAVE DISSIMILAR MAGNITUDES SINCE THEY COME FROM DIFFERENT SOURCE FRAMES 1000 <u>ග</u>ි කි FED 4 0 3/5 9 0 124 COMPUTATION 0 DIFFERENCE SIMILAR FIELD 3 Be / Be 0 品 2/4 贸 ⋛ 0 岛語 | | | 0 0 0 COMPUTATION DIFFERENCE \ddot{z} DIFFERENT FIELD 2 SOURCE FRAMEA O O O O/O O/O O O O O O O Ao/Bo 田田 ङ 2 0 0 0 0 COMPUTATION DIFFERENCE 0 DIFFERENT Ae / Be THIS PAIR OF FIELD DIFFERENCE VALUES HAVE SIMILAR MAGNITUDES SINCE BOTH COME FROM THE SAME ORIGINAL FRAMES 풀 0/2 웆 0 0 0 0 DIFFERENT COMPUTATION DIFFERENCE 0 FIELD 0 -/ A 0 풀 = 9 EVEN FILD FILD 0 0 FIELDS SIMILAR OR DIFFERENT? FIELDS DIFFERENCED SOURCE FRAMES BOTH FIELDS FROM SAME ORIGINAL FRAME? DIFFERENCE MAGNITUDE I-BIT INDICATOR 24 FRAME/SEC PROGRESSIVE VIDEO FIELDS DIFFERENCE COMPUTATION 60 FIELD/SEC SCAN FILM FRAMES INTERLACED SOURCE FRAMES CONVERTED INTO 114-INTERLACED 8 FIELDS

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